BRUHATH BANGALORE MAHANAGARA PALIKE

ame of work:Construction of new culverts in coffe board Layout, pampa Extension, empapura, and surrounding areas of ward No. 07- Byatarayanapura, Kodigehalli Sub ivision.

	Description of work	No.	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
	2	3	4	5	6	7	8	9	10
	KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. (P-5, It. No.2.1)								
	Basic rate		77.00						
	Add A.W. 8%		6.16						
	Total		83.16						
	over burden earth	1	10.00	2.00	0.80	16.00			
	culverts	28	6.00	1.80	1.00	302.40			
					Total:-	**318.40**	83.16	Cum	26479.00
2	**KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic rate		4695.00						
	Add A.W. 8%		375.60						
	Total		5070.60						
		28	6	1.8	0.15	45.36			
						45.36	5070.60	Cum	**230002.416**
	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate		5084.00						
	Add A.W. 8%		406.72						
	Total		5490.72						
	Culvert bottom	28	6	1.8	0.1	30.24			
	coping	28	6	1.8	0.1	30.24			

						60.48	5490.72	Cum	332079.00
4	**KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate		3200.00						
	Add A.W. 8%		256.00						
	Total		3456.00						
	culvert	56	6.00	0.45	0.60	90.72			
		28X2				**90.72**	3456.00	Cum	313529.00
5	**KSRB 5.3-1:**Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate		**33.00**						
	Add A.W. 8%		2.64						
	Total		**35.64**						
		56	6		0.60	201.60			
		28X2				**201.60**	35.64	Sqm	7186.00
)	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Basic rate	=	5111.00						
	Total	=	5111.00						
	Culvert slabs	278	1.80	0.60		300.24			
					Total:-	**300.24**	5111.00	Cum	1534527.00
	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Qty vide item no.1					318.40	94.82	Cum	30191.00
	Basic rate	=	62.20						
	Conveying charges for 10Kms								
	Rs. 2.00 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.00X1.28TonneX10Km	=	25.60						

Total	=	87.80						
Add Area Weightage 8%	=	7.02						
		94.82						
Sub total								2473993.42
Add 1% third party inspection charges								24739.93
Miscellaneous and rounding off								1266.65
						Total:-		2500000.00

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Executive Engineer
Byatrayanapura Division
B.B.M.P.
15/12

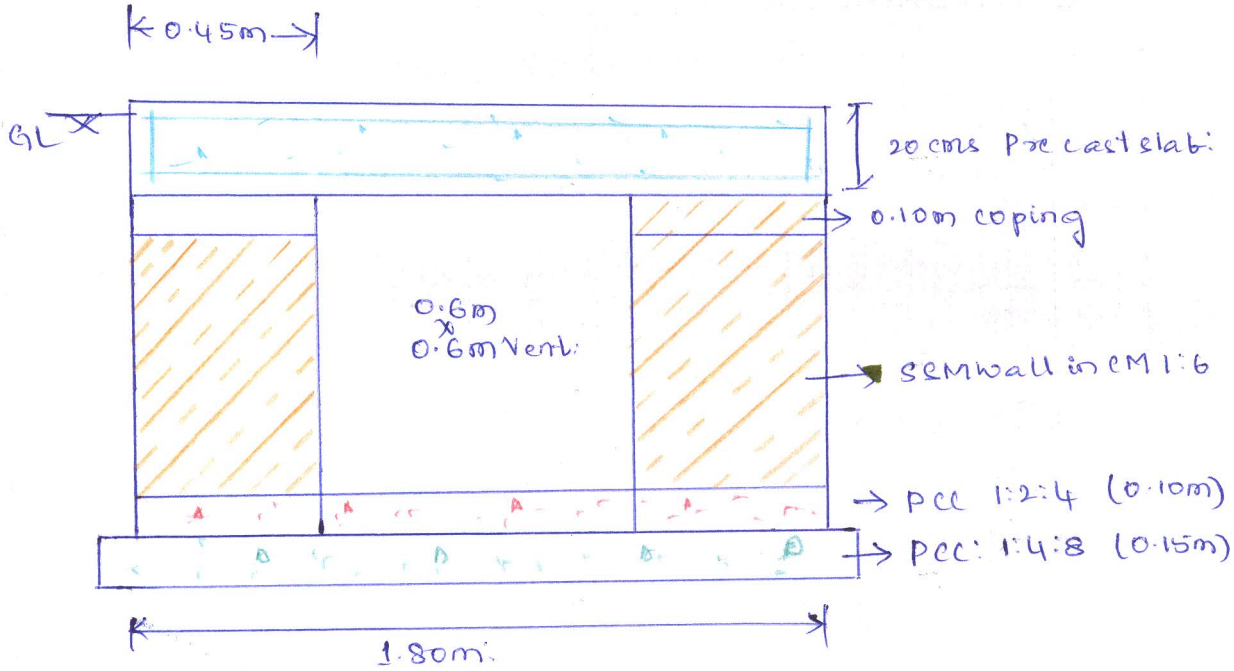
Administrative Approval
Accorded For 25.00 lakh Rs
Head of A/C.....P-1771
CER NO :.....56..... Dt:..28/12/16

TA CE (YNK)

Technical Sanction
Accorded For .....25.00 lakh Rs
Head of A/C.....P-1771
CER NO :.....75..... Dt:..28/12/16

TA CE (YNK)

ame of work: Construction of new culverts in Coffee board layout, pampa extension, kempapura
nd surrounding areas in ward 07, Byatarayanapura



CROSS-SECTION OF SSM-CULVERT

N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092